



Monarch Extreme Duty Chassis

FAMILY OWNED  
SINCE 1890



**MONARCH EXTREME DUTY CHASSIS**

Since 1968, our experience and focus on the fire service have driven Sutphen to build the industry's most Extreme Duty Chassis. Every inch of our custom chassis is built to with stand the most severe firefighting conditions.



- Sutphen doesn't buy our cabs from other manufacturers, we build our own cab. Sutphen cabs are constructed from heavy wall 6061 T6 aluminum extrusions and heavy duty 5052 aluminum plate. Our chassis meets all ASME and ECE standards.
- Steel box tube design subframe under cab. The structure is manufactured from 5" structural I-beams joined to a 4" tube.
- Front and rear suspension work together resulting in superior handling, a smoother ride, and maximum turning radius.
- Chassis surfaces are bead blasted to prep the surface for better adhesion of the Cathacoat primer and durable Imron top coat paint. This ensures the chassis will be long lasting and safe from corrosion.
- Frame rails, cross members, and suspension hangers are Huck Bolted with Grade 8 fasteners.
- 45 degree tilt angle on one piece cab. Tilt cab mounted on isolators and a separate heavy duty pivoting steel sub-frame, for improved ride, stronger cab, and reduced cab sub-frame stress.



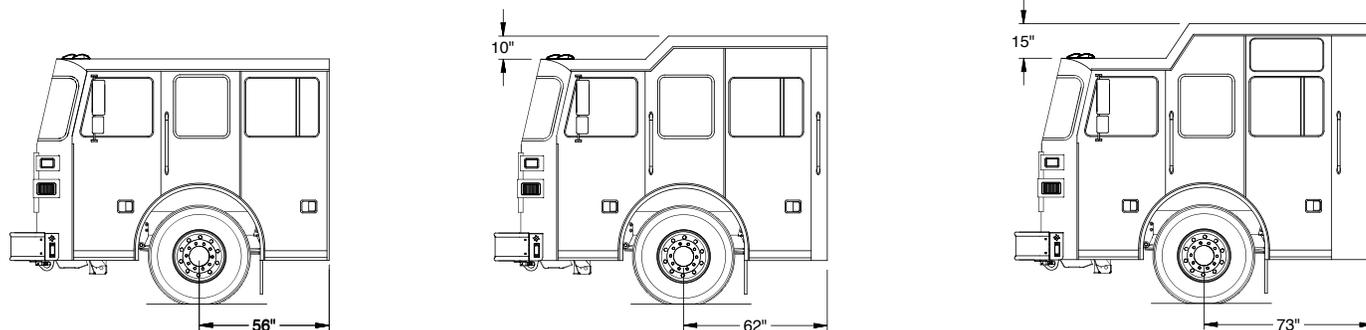
# MONARCH EXTREME DUTY CHASSIS

Built for strength, durability, convenience, and safety, a Sutphen chassis will perform in even the toughest of firefighting situations. With a long list of available options and configurations, its custom each and every time we build one. There's only one Sutphen Extreme Duty Chassis System.

- The cab interior features high quality, extreme duty products, resulting in a rugged interior. No need to choose between light or medium duty trim levels. Sutphen is extreme duty, all the time.
- We utilize heavy duty custom seats, along with Durawear covered headliners and back cab wall. Full length stainless steel interior door panels. Durable urethane coated dash, switch console, and engine hood.
- The grille and headlight housings are 14-gauge #304 Stainless Steel, never plastic, for durability and that classic Sutphen look.
- The batteries are mounted in a vented #304 1/4" Stainless Steel box with Dry Deck floor, protected by a removable aluminum cover. This protects the batteries from the elements and road dirt.
- Battery wiring is 3.0 welding cable with molded terminal ends, stamped with function.
- Brake and electrical harnesses covered in flexible, high temperature, plastic loom and secured within the frame rail, spaced every 12" – 24". This protects them from debris and damage, reducing wear and tear and increasing longevity. To increase the reliability, and serviceability of the electrical system, Sutphen has added a distribution modules.
- Wiring is color coded XL high temperature crosslink, function and number coded every 4". All electrical terminals and connectors are coated with liquid black sealer where needed. Multi connections are through Deutsch weatherproof connectors, other connections are done with heat shrink terminals for corrosion protection.

## ADDITIONAL FEATURES:

- Cabs are available in 56", 62", and 73" lengths, with raised roof options of 10", 15", and 20".
- Fenders are polished stainless steel, spaced from the cab side to reduce road dirt build up.
- Multiple options for in cab compartments provide additional storage space for gear and equipment.
- Available engine options include Cummins ISC, ISL, and ISX in 330 HP to 600 HP.





- The driver and officer positions feature redesigned, ergonomic command consoles and control stations. These stations are designed to be customizable and easy to reach when belted, and without having to take your eyes from the road.



- The cab front features a 10-gauge #304 Stainless Steel front bumper which is reinforced with a 1/4" steel plate for added crash protection.



- Sutphen meets or exceeds all ECE R29, SAE J2422, and SAE J2420 Cab Crash Test standards, as well as FMVSS 207 and 201 Seat Belt Pull Tests.

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